

# 44 UNIT PLANTER



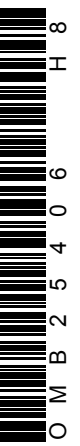
## OPERATORS MANUAL

### 44 UNIT PLANTER

OMB25406 H8 English

**JOHN DEERE HARVESTER WORKS**  
**OMB25406 H8**

LITHO IN THE U.S.A. (REVISED)  
ENGLISH





# TO THE PURCHASER

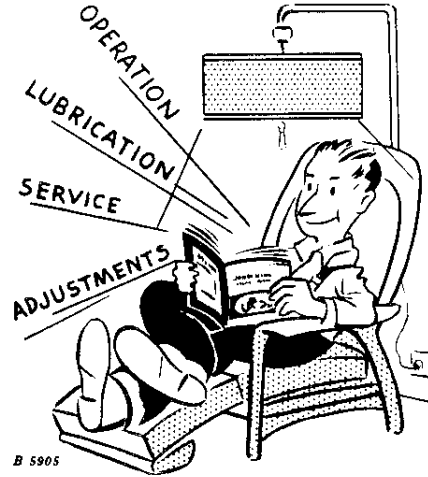
Your new planter is sturdy and dependable. It will give long and efficient service if given proper care and operation.

This operator's manual contains information on the proper operation, adjustment, maintenance, and lubrication.

When in need of parts, see your John Deere dealer. He will furnish genuine John Deere Parts and prompt and efficient service in the field or in the shop.

Right- and left-hand reference is determined by standing at the rear of the planter and facing the direction of travel.

Information concerning warranty on this planter appears on your copy of the delivery receipt which you should have received from your dealer when the planter was delivered to you.



Study this manual carefully. Keep it handy, in a safe place, for future reference.

## 44 UNIT PLANTER

Check off model of your planter, special equipment obtained, and record date purchased.

Model:

- 44 with Runner Openers . . . . .
- Rubber Press Wheel Tires . . . . .
- Press Wheel Band . . . . .
- Gauge Shoe . . . . .
- Double-Disk Seed Opener . . . . .
- Covering Knives . . . . .
- Disk Coverer . . . . .
- Seed Packer Wheel . . . . .
- Double-Disk Furrowers . . . . .

- V-wings . . . . .
- Spring Pressure Attachment . . . . .
- Brush Cutoff and Baffle Plate . . . . .
- Cotton Cell-Drop Planting Attachment . . . . .
- Pea and Bean Attachment . . . . .
- Fine Seed Attachment . . . . .
- Unshelled Peanut Attachment . . . . .
- Shelled Peanut Attachment . . . . .
- Insecticide Attachment . . . . .
- Granular Herbicide Attachment . . . . .
- Row Leveling Blades . . . . .
- 4 x 7-Inch Toolbar Adapter . . . . .
- Date Purchased . . . . .

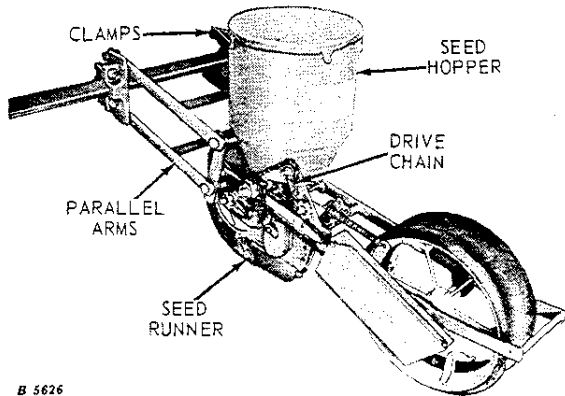


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# SPECIFICATIONS



B 5626

**TYPE** - The 44 Unit Planter is a rear-mounted, hill-drop or drill planter. It can be attached to any square 2-1/4-inch rear-mounted toolbar. One or more units may be mounted on the toolbar depending upon the length of the toolbar, desired row spacing, position of the toolbar attaching parts, the use of a Quik-Coupler, type of hitch, the type of attachment used on the unit, and tractor size.

The following chart lists recommended combinations. They may be used with or without a Quik-Coupler.

No. Rows	Fertilizer Unit	Attachment*	No. 17 Lift Assist Wheel	Recommended John Deere Tractors				
				2510	3010	3020	4010	4020
4	451	3	One				X	
4	451	1	One			X	X	
4	451		One			X	X	
4		3	One	X		X	X	
4		1					X	
6	651	1	One				X	
6	651	2	One				X	
6	651		One			X	X	
6	651	1	Two				X	
6		3	Two				X	
6		1	Two			X	X	
8		2	Two				X	X
8		3	Two					X

\* Attachments may include the following: Insecticide, Herbicide, Furrowers, or V-wings.

*NOTE: 8 rows require a 4 x 7-inch toolbar.*

**ROW WIDTHS** - Maximum row widths are limited only by the length of the toolbar and the toolbar attaching parts. Minimum row widths are dependent upon the following combinations:

Fertilizer Unit	Furrowers	No. 17 Lift Assist Wheel	Spring Pressure Attachment	Clamp Positioning	Minimum Row Widths
	X			In	20"
	X		X	In	22"
	X			Out	24"
	X		X	Out	24"
451	X	One		In	30"
451	X	One		Out	34"
451	X	One		Out	34"
451	X	One	X	Out	34"
651	X	Two		In	30"
651	X	Two	X	In	34"

**TYPE OF DRIVE** - Sprocket and roller chain from press wheel axle.

**SEED HOPPERS** - Approximately 1-1/6 bushel capacity. Choice of combination cotton and corn hopper or corn hopper.

**PRESS WHEEL** - 18-inch press wheel. Can be equipped with scrapers, and/or steel press wheel bands. Rubber press wheel tires are available.

**PLANTING DEPTH** - Controlled by press wheel, gauge shoe, or V-wing.

**PRESS WHEEL BAND** - Used for a more compact seed bed. The band will close up the opening and make the press wheel solid and increase press wheel flotation in light soil conditions.

**DOUBLE-DISK SEED OPENERS** - 14-inch double-disk seed openers are used in trashy field conditions and for better penetration in hard soil conditions.

**GAUGE SHOES** - Gauge shoes are used for maintaining accurate planting depth in loose soil conditions.

**SEED PACKER WHEEL** - 7-inch seed packer wheel for firming seed against the moist soil. Not recommended for loose soils such as peat, or wet, sticky soils. Recommended for use in limited moisture conditions.

**BRUSH CUTOFF AND BAFFLE PLATE** - Used for planting fragile seeds such as castor beans.

**SPRING PRESSURE ATTACHMENT** - Positioned on parallel arms to increase or decrease available weight for penetration of planting unit.

**V-WING** - Used for cleaning the clods and dry soil off the top of the surface of the soil either in level planting or on beds. Cannot be used with double-disk seed openers or gauge wheels.

**DOUBLE-DISK FURROWERS** - 16-inch double-disk furrowers are used for planting the seed in shallow furrows.

**FINE SEED ATTACHMENT** - Used for planting vegetables, grass and similar seeds.

**PEA AND BEAN ATTACHMENT** - Used for dropping corn and peas or beans alternately in the row.

**UNSHELLED PEANUT ATTACHMENT** - Used for planting peanuts in the shell.

**SHELLED PEANUT ATTACHMENT** - Used for planting shelled peanuts. Reduces seed damage by using plate which supports most of seed weight.

**COVERERS** - Knife or disk coverers are available for positive seed coverage.

**INSECTICIDE ATTACHMENT** - 30 pound capacity. Will apply insecticide in the row with the seed at the time of planting.

**GRANULAR HERBICIDE ATTACHMENT** - 30 pound capacity. Used for applying granular herbicide over the row at the time of planting.

**LIQUID HERBICIDE ATTACHMENT** - Use the 22 Sprayer with tanks mounted on the side of tractor.

**CELL-DROP COTTON PLANTING ATTACHMENT** - Can be used in place of the picker wheel for planting gin-run, mechanically delinted, or flame delinted cotton seed.

**451 AND 651 FERTILIZER UNIT FOR TOOLBAR** - Can be mounted on any 2-1/4-inch square toolbar and used to apply fertilizer when planting with the 44 Unit Planter.

**17 LIFT ASSIST WHEEL** - Enables you to carry a big planter outfit with fertilizer attachment on the 3-point hitch of even a smaller tractor, without affecting tractor front end stability.

**ROW LEVELING BLADES** - Mix weed control chemicals in with the surface soil and erase press wheel tracks without disturbing compaction over the seed row.

*(Specifications and design subject to change without notice.)*



# OPERATION

## PREPARING THE TRACTOR

### ALL TRACTORS

For complete operating instructions concerning the tractor, refer to the tractor operator's manual.

#### Rear Wheel Tread

When two or four units are being used, set the tractor wheel tread as nearly as possible twice the distance of the row width. For example: For 40-inch row widths, set the tractor wheel tread at 80 inches.

#### Tire Pressure

Consult your tractor operator's manual for front and rear tire pressure.

### 2510, 3010, 3020, 4010, 4020, 5020 SERIES TRACTORS

#### Belt Pulley

The belt pulley must be removed from the tractor, if the tractor is so equipped.

#### Sway Blocks

Sway blocks must be attached to eliminate all side sway except for contour planting.

#### Setting the Rockshaft Selector Lever

Set the selector lever in "D" position.

#### Lift Links

Adjust the lift links for transport clearance and lateral float. See tractor operator's manual.

#### Front End Weights

In order to determine the recommended front end weights, it is necessary to first find your planting combination in the RECOMMENDED PLANTER AND ATTACHMENT COMBINATIONS chart. For example, let's assume you have six units, equipped with herbicide attachments. You also have a 651 Fertilizer Attachment mounted on a 20-foot double toolbar with two 17 Lift Assist Wheels. By checking these elements in the chart you will find that this is under combination "R." Now let's assume that you have a 4020 Row-Crop Tractor with adjustable tread and you also have a 9B Tool Carrier. Refer to the RECOMMENDED FRONT END WEIGHTS chart and read downward in the first column until you find your tractor listed. Now follow across until you come to Planting Combination "R" and you will find the recommended weight is 1,000 pounds.

**Recommended Planter and Attachment Combinations**

Components	Planting Combinations																			
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
F880 Series 4" x 7" Toolbar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22'	22'
Length of Double Toolbar with 5D or 9B Carrier	14'	14'	14'	14'	14'	14'	14'	14'	20'	20'	20'	20'	20'	20'	20'	20'	20'	20'	0	0
Number of Units	4	4	4	4	4	4	4	4	6	6	6	6	6	6	6	6	6	6	8	8
Number of 17 Lift Assist Wheels	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	2	2	2	2
Max. No. of Attachments *	0	0	1	2	3	0	1	2	0	1	2	0	1	2	3	0	0	1	2	3
Fert. Attach.	-	-	-	-	-	451	451	451	-	-	-	-	-	-	-	651	651	651	-	-

NOTE: All combinations include Hyd'Row Markers and rubber-tired press wheels and are compatible with or without Quik-Coupler.

\* Individual attachments are: double-disk furrowing attachments, 30-lb. capacity herbicide and insecticide attachments, and V-wings. Since the double-disk furrowing attachment is not used with the V-wings, the largest number of attachments on any combination is three.

Recommended Front End Weights in Pounds

Tractor	Tool Carrier or Bedder	Planting Combinations*																			
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
2510 RC Single Front Wheel	5D	**	700	800	1000	1200	**	**	**	**	**	**	0	300	**	**	**	**	**	**	**
	9B	**	800	1000	1200	1200	**	**	**	**	**	**	100	500	**	**	**	**	**	**	**
2510 RC Adj. Tread	5D	**	300	500	700	900	**	**	**	**	**	**	0	0	**	**	**	**	**	**	**
	9B	**	400	600	800	1000	**	**	**	**	**	**	0	100	**	**	**	**	**	**	**
3020 U Short Wheelbase	5D	**	200	400	600	900	**	**	**	**	**	**	0	0	**	**	**	**	**	**	**
	9B	**	400	600	800	1100	**	**	**	**	**	**	0	0	**	**	**	**	**	**	**
3020 RC Single Front Wheel	5D	**	500	700	900	1100	**	**	**	1100	**	**	0	200	500	1000	**	**	**	**	**
	9B	**	600	800	1000	1200	**	**	**	1200	**	**	0	300	700	1200	**	**	**	**	**
3020 RC Adj. Tread	5D	**	200	300	500	700	**	**	**	800	**	**	0	0	200	600	**	**	**	**	**
	9B	**	300	500	700	900	**	**	**	900	**	**	0	0	300	800	**	**	**	**	**
3020 S Short Wheelbase	5D	**	200	400	600	900	**	**	**	900	**	**	0	0	200	700	**	**	**	**	**
	9B	**	400	500	800	1000	**	**	**	1000	**	**	0	0	400	900	**	**	**	**	**
4020 RC Single Front Wheel	5D	1200	0	200	300	500	800	1000	1200	600	900	1200	0	0	0	400	1000	800	1200	**	**
	9B	1200	100	300	500	700	900	1100	1200	700	1000	1200	0	0	100	600	1200	1000	1200	**	**
4020 RC Adj. Tread	5D	900	0	0	0	200	400	600	800	200	500	900	0	0	0	100	700	400	800	**	**
	9B	1000	0	0	100	300	600	800	1000	400	700	1000	0	0	0	300	800	600	1000	**	**
	F880 Series	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	1300
4020 S Short Wheelbase	5D	1000	0	0	0	200	500	700	900	300	600	1000	0	0	0	100	800	500	900	**	**
	9B	1000	0	0	100	400	600	900	1100	400	800	1100	0	0	0	300	900	700	1200	**	**
5020 RC	F880 Series	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	200
5020 S	F880 Series	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	500

\* See the preceding table for planting combinations.  
 \*\* Combinations not recommended.

520, 530, 620, 630, 720, OR 730 SERIES TRACTORS

*Sway Locks*

Install the sway locks to eliminate side sway except for contour planting.

*Load Control Yoke*

Install the upper link in hole No. 3 of the load control yoke.

*Front End Weights*

Add the necessary front end weights for efficient operation and safety. See tractor operator's manual.

ATTACHING TOOLBAR TO TRACTOR

Attach the toolbar mounting brackets to the hitch draft links and secure each side with a quik lock pin. When using the 500 Toolbar, position the toolbar mast and secure it to the hitch center link. Gauge wheels are recommended for toolbar stability.

ROW SPACING

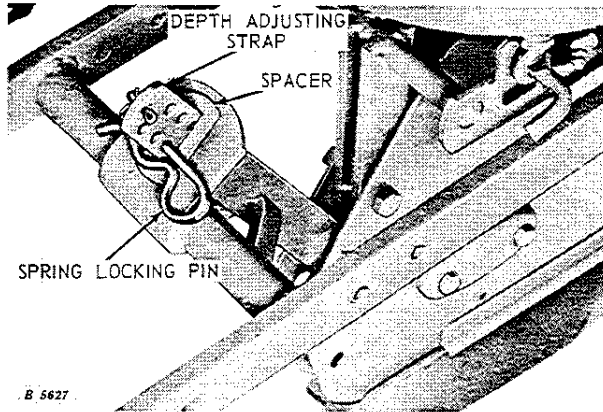
Set the tractor wheel tread (center to center of tires) twice the planter row spacing.

When two or more units are mounted on the same toolbar, the maximum row spacing will be limited only by the length of the toolbar and the position of the attaching parts. Minimum row spacing is dependent upon combinations found on page 2.

## 6 Operation

### DEPTH OF PLANTING

The planting depth is gauged by the planter press wheel except when using a gauge shoe or V-wing.



When the press wheel is used for gauging depth, the planting depth of each unit is determined by the setting of the spring locking pin in the depth adjusting strap. To change the planting depth move the pin up to increase the depth or down to decrease the depth.

Each hole in the depth adjustment strap represents a change of approximately 1/2 inch in the planting depth. To change the planting depth by 1/4 inch remove the spacer from under the locking pin.

Adjust all units to plant at the same depth.

When V-wings or gauge shoes are used, the depth of planting depends upon the position of each V-wing or gauge shoe in relation to the planter runner.

### LEVELING PLANTER

The 44 Unit Planter is leveled by adjusting the center link of the 3-point hitch of the tractor.

The top edge of runner of the planting units must be parallel to the ground when the toolbar is lowered to the operating position.

### RAISING AND LOWERING PLANTER

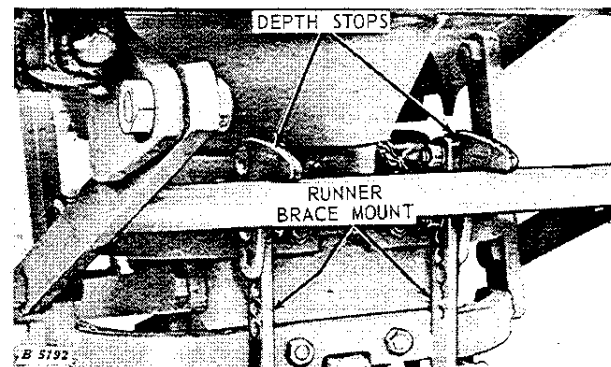
The planting unit is raised or lowered with the rear-mounted toolbar by the tractor hydraulic system.

### ADJUSTING SPEED OF ROCKSHAFT DROP

Set the speed of the rockshaft drop on tractor on which the rockshaft and implement drop can be regulated. Adjust the throttle valve to give a smooth slow drop of the planter.

### TRANSPORTING

To transport the 44 Unit Planter raise the hitch on the tractor.



Additional transport clearance can be obtained by lowering the depth stops on the runner brace mount.

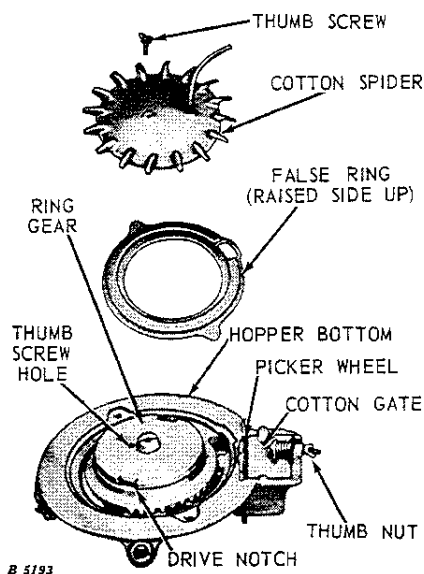
If depth stops are lowered, be certain they are not left in this position when planter is returned to the field. If left in lowered position, planter may not drop far enough when working in uneven terrain.

Do not transport the planter faster than 10 miles per hour on a smooth surface road. Reduce speed when traveling over rough ground.

**CAUTION:** When transporting the equipment on road or highway at night or during the day, use accessory lights and devices for adequate warning to operators of other vehicles. In this regard check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.



### PLANTING LINT COTTON SEED



When planting lint cotton, remove the corn cutoff from the hopper by unscrewing the thumb screw which holds it in place.

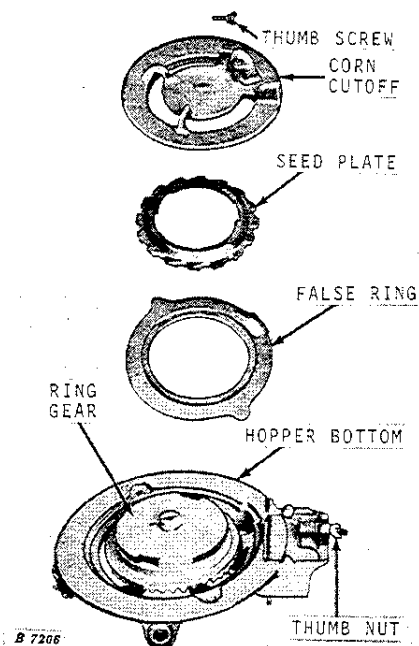
Place the false ring in hopper with **raised side up**.

Install the cotton spider and hold it in place with the thumb screw. The hole in the cotton spider is off to one side of center and lines up with the thumb screw hole in the ring gear. The drive lugs on the cotton spider must engage the drive notches on the ring gear.

*NOTE: Be sure cotton spider is seated on the ring gear when thumb screw is tightened. Rotate shaft in hopper bottom to be sure it turns freely.*

The quantity of cotton planted is regulated by the cotton gate. To increase the quantity of seed planted, turn the thumb nut to the right which will open the cotton gate. To decrease the quantity of seed planted, turn the thumb nut to the left.

### PLANTING ACID DELINTED COTTON SEED, CORN, AND ALL OTHER SEED EXCEPT LINT COTTON SEED



Remove the cotton spider. Install false ring with **raised side up** when planting such small seeds as: feterita, sorghum, etc. If corn, acid delinted cotton, or other large seeds are to be planted, install the false ring with **flat side up**.

*NOTE: Some seed plates require special false rings. See seed plate charts on pages 8 and 9.*

Install seed plate.

Install corn cutoff and fasten in place with the thumb screw. The cutoff must fit tightly against the false ring.

*NOTE: Be sure corn cutoff is seated on the ring gear when thumb screw is tightened. Rotate shaft in hopper bottom to be sure it turns freely.*

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